

**SERVICE INTERFACE FOR QoS-DRIVEN HPNA NETWORKS**

## Abstract of the Invention

An in-band signaling model media control (MC) terminal for an HPNA network includes a frame classification entity (FCE) and a frame scheduling entity (FSE) and provides end-to-end Quality of Service (QoS) by passing the QoS requirements from higher layers to the lower layers of the HPNA network. The FCE is located at an LLC sublayer of the MC terminal, and receives a data frame from a higher layer of the MC terminal that is part of a QoS stream. The FCE classifies the received data frame for a MAC sublayer of the MC terminal based on QoS information contained in the received data frame, and associates the classified data frame with a QoS stream queue corresponding to a classification of the data frame. The FSE is located at the MAC sublayer of the MC terminal, and schedules transmission of the data frame to a destination for the data frame based on a QoS requirement associated with the QoS stream.